TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-04-01** **Date: 07-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014

Customer's Reference : BBMP/EE/BTP/WO/184/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-04-17

Sample ID No : 2017-04-04-01/01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	30/03/2017	06/04/2017	150.45 X 150.77 X 150.28	22683	8.173	360.7	15.9	16.2
2	Cement Concrete Pavement	M20	30/03/2017	06/04/2017	150.65 X 150.98 X 150.28	22745	8.157	370.7	16.3	
3	Cement Concrete Pavement	M20	30/03/2017	06/04/2017	151.82 X 150.43 X 151.82	22838	8.109	374.5	16.4	

Note:
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Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-04-01** **Date: 28-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014

Customer's Reference : BBMP/EE/BTP/WO/184/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-04-17

Sample ID No : 2017-04-04-01/02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	30/03/2017	27/04/2017	150.75 X 150.88 X 151.92	22745	8.182	541.3	23.8	23.9
2	Cement Concrete Pavement	M20	30/03/2017	27/04/2017	150.25 X 150.52 X 150.37	22616	8.154	549.6	24.3	
3	Cement Concrete Pavement	M20	30/03/2017	27/04/2017	150.82 X 150.28 X 150.15	22665	8.117	532.6	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-20-03** **Date: 23-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014

Customer's Reference : BBMP/EE/BTP/WO/184/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-17

Sample ID No : 2017-03-20-03/01

Customer ID : PCC- 1:2:4

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC- 1:2:4	M15	15/03/2017	22/03/2017	151.99 X 149.01 X 151.05	22648	8.198	287.6	12.7	12.7
2	PCC- 1:2:4	M15	15/03/2017	22/03/2017	150.55 X 149.76 X 150.47	22546	8.154	277.3	12.3	
3	PCC- 1:2:4	M15	15/03/2017	22/03/2017	150.22 X 150.43 X 150.32	22598	8.189	296.0	13.1	

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Prepared by
Harsitha

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-20-03** **Date: 13-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014

Customer's Reference : BBMP/EE/BTP/WO/184/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-17

Sample ID No : 2017-03-20-03/02

Customer ID : PCC- 1:2:4

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC- 1:2:4	M15	15/03/2017	12/04/2017	150.43 X 149.51 X 150.33	22491	8.143	418.3	18.6	18.6
2	PCC- 1:2:4	M15	15/03/2017	12/04/2017	150.28 X 149.27 X 150.62	22432	8.139	412.8	18.4	
3	PCC- 1:2:4	M15	15/03/2017	12/04/2017	150.69 X 150.32 X 150.44	22652	8.128	428.1	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-29-01** **Date: 31-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014

Customer's Reference : BBMP/EE/BTP/WO/184/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-17

Sample ID No : 2017-03-29-01/01

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	24/03/2017	31/03/2017	150.27 X 150.38 X 149.77	22598	8.098	368.3	16.3	15.9
2	Footing Concrete	M20	24/03/2017	31/03/2017	150.26 X 150.43 X 150.72	22604	8.143	350.4	15.5	
3	Footing Concrete	M20	24/03/2017	31/03/2017	150.53 X 150.37 X 149.09	22635	8.168	359.9	15.9	

Note:
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Harsitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-29-01** **Date: 22-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014

Customer's Reference : BBMP/EE/BTP/WO/184/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-17

Sample ID No : 2017-03-29-01/02

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	24/03/2017	21/04/2017	150.76 X 150.87 X 150.54	22745	8.151	548.2	24.1	24.0
2	Footing Concrete	M20	24/03/2017	21/04/2017	149.76 X 150.82 X 150.52	22587	8.198	535.3	23.7	
3	Footing Concrete	M20	24/03/2017	21/04/2017	150.26 X 150.87 X 150.42	22670	8.165	548.6	24.2	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-07-02** **Date: 13-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-02/04
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	10-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.394	543	618	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

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Prepared By:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-07-02**	**Date: 13-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.	
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014	
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-03-17	
Sample ID No	:	2017-03-07-02/05	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	10-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.614	559	674	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

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Prepared By:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-07-02**	**Date: 13-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.	
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014	
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-03-17	
Sample ID No	:	2017-03-07-02/06	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	10-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	12mm	0.884	584	679	22.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	12mm	Satisfactory	Satisfactory

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Quality Manager

Prepared By:
Harshitha

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-08-01** **Date: 10-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency		S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-17
Sample ID No	:	2017-02-08-01/01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-02-2017 to 09-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.55	–
2	Finess by Air permeablity method (m2/kg, Min)	276.3	225m^2/kg, Min
3	Density (gm/cc)	3.24	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	235 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-08-01** **Date: 10-03-2017**

Sample ID No : **2017-02-08-01/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	340 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-07-02** **Date: 14-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-02/02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	07-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	110	142	14.2	85.8	60-95	75-100	85-100	95-100
4	1.18 mm	101	243	24.3	75.7	30-70	55-90	75-100	90-100
5	600 micron	175	418	41.8	58.2	15-34	35-59	60-79	80-100
6	300 micron	312	730	73	27	5-20	8-30	12-40	15-50
7	150 micron	211	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-07-02** **Date: 14-03-17**

Sample ID No : 2017-03-07-02/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	1.98	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.1	Not more than 15 percent

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-07-02** **Date: 14-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014
Customer Reference	:	BBMP/EE/BTP/WO/184/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-02/01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	07-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	149	149	2.98	97.0	95-100
3	10 mm	2261	2410	48.2	51.8	25-55
4	4.75 mm	2411	4821	96.4	3.6	0-5
5	Pan	179	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-07-02** **Date: 14-03-2017**

Sample ID No : 2017-03-07-02/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	11.5	–
2	Elongation Index(%)	10.3	–
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Ten percent fine value(KN)	155.0	–
8	Aggregate crushing Value(%)	21.5	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	23.7	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-07-02** **Date: 14-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-02/01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	07-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	201	201	4.02	96.0	95-100
3	20 mm	1987	2188	43.76	56.2	30-70
4	10 mm	2022	4210	84.2	15.8	10-35
5	4.75 mm	683	4893	97.86	2.1	0-5
6	Pan	107	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-07-02** **Date: 14-03-2017**

Sample ID No : 2017-03-07-02/01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**8.9**	–
2	Elongation Index(%)	**12.6**	–
3	Specific Gravity	**2.63**	–
4	Bulk Density(Loose) (Kg/l)	**1.52**	–
5	Bulk Density(Compacted) (Kg/l)	**1.59**	–
6	Water Absorption(%)	**0.27**	–

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Prepared by
Harshitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-03-07-02** **Date: 14-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Govt School Varadarajnagar and other School in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	S. Venkateshappa, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014
Customer's Reference	:	BBMP/EE/BTP/WO/184/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-02/03
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-03-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	201	202	16363	31.770	1941.6	1947.2	Not less than 1800Kg/m^3
2	401	202	200	16200	32.090	1980.8		
3	402	202	202	16403	31.48	1919.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.870	32.840	3.14	3.33	Shall not be more than 10% by mass
2	33.420	32.200	3.79		
3	33.180	32.190	3.08		

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Lab ID : **CP-2017-03-07-02** **Date: 14-03-17**

Sample ID No : **2017-03-07-02/03**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	199	203	
2	403	201	201	
3	402	201	202	
4	401	203	203	
5	402	200	202	
6	400	198	201	
7	401	202	203	
8	402	201	199	
9	399	203	202	
10	402	201	203	
11	401	203	199	**Length : ± 5mm**
12	402	200	203	**Breadth : ± 3mm**
13	404	202	201	**Height : ± 3mm**
14	400	201	203	
15	403	202	200	
16	401	200	201	
17	400	199	201	
18	402	200	203	
19	400	201	201	
20	402	203	203	
Average of 20 blocks	**401**	**201**	**202**	

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Lab ID : **CP-2017-03-07-02** **Date: 14-03-17**

Sample ID No : 2017-03-07-02/03

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	199	79998	312.5	3.9	4.4
2	403	201	81003	376.8	4.7	
3	402	201	80802	392.6	4.9	
4	401	203	81403	366.4	4.5	
5	402	200	80400	372.3	4.6	
6	400	198	79200	332.7	4.2	
7	401	202	81002	382.2	4.7	
8	402	201	80802	310.6	3.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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